

Table 7. Death rates and age-adjusted death rates for the 15 leading causes of death and selected components in 1998: United States, 1979, 1997, and 1998

[Rates on an annual basis per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population; see Technical notes. For explanation of asterisks preceding cause-of-death categories, see Technical notes]

Cause of death (Based on the Ninth Revision, International Classification of Diseases, 1975) and year	Age											Age-adjusted rate ³	
	All ages ¹	Under 1 year ²	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over	
All causes													
1998	864.7	751.3	34.6	19.9	82.3	109.6	199.6	423.5	1,030.7	2,495.1	5,703.2	15,111.7	471.7
1997	864.7	738.7	35.8	20.8	86.2	115.0	203.2	430.8	1,063.6	2,509.8	5,728.2	15,345.2	479.1
1979	852.2	1,332.9	64.2	31.5	114.8	133.0	229.8	589.7	1,338.0	2,929.0	6,496.6	14,962.4	577.0
Diseases of heart (390-398,402,404-429)													
1998	268.2	16.1	1.4	0.8	2.8	8.3	30.5	101.4	286.9	735.5	1,897.3	6,009.6	126.6
1997	271.6	16.4	1.4	0.8	3.0	8.3	30.1	104.9	302.4	753.7	1,943.6	6,198.9	130.5
1979	326.5	20.2	2.1	0.8	2.6	8.4	45.3	184.6	499.0	1,199.8	2,925.2	7,310.9	199.5
Rheumatic fever and rheumatic heart disease (390-398)													
1998	1.8	*	*	*	0.1	0.2	0.4	0.9	2.4	5.8	12.7	25.0	1.0
1997	1.9	*	*	*	0.1	0.2	0.5	1.0	2.5	6.1	13.7	26.8	1.0
1979	3.5	*	*	*	0.2	0.4	1.4	3.9	8.0	16.0	20.6	25.2	2.6
Hypertensive heart disease (402)													
1998	10.3	*	*	*	0.1	0.5	2.3	6.8	14.7	26.6	60.9	212.4	5.3
1997	9.9	*	*	*	0.1	0.4	2.2	6.7	13.7	26.1	60.3	214.3	5.2
1979	9.3	*	*	*	*	0.4	1.9	7.0	16.2	35.7	79.6	170.3	6.0
Hypertensive heart and renal disease (404)													
1998	0.9	*	*	*	*	0.1	0.1	0.3	0.7	2.2	7.0	20.1	0.4
1997	0.9	*	*	*	*	0.1	0.1	0.2	0.8	2.2	7.1	22.2	0.4
1979	1.6	*	*	*	*	*	*	0.2	0.4	1.4	5.1	16.8	50.9
Ischemic heart disease (410-414)													
1998	170.1	*	*	0.1	0.3	2.4	14.7	58.3	180.7	487.2	1,252.2	3,743.9	79.5
1997	174.2	0.6	*	*	0.3	2.5	14.6	62.1	192.9	504.4	1,291.5	3,900.5	82.9
1979	245.5	0.7	*	*	0.3	3.6	30.1	136.1	381.0	926.6	2,224.8	5,376.1	149.7
Acute myocardial infarction (410)													
1998	75.3	*	*	*	0.2	1.3	7.8	32.4	98.0	237.7	554.6	1,382.4	38.0
1997	77.0	*	*	*	0.2	1.3	7.8	34.6	104.6	248.5	574.6	1,407.8	39.7
1979	133.8	*	*	*	0.2	2.4	21.1	94.6	258.9	577.2	1,135.2	1,916.3	88.2
Other acute and subacute forms of ischemic heart disease (411)													
1998	1.1	*	*	*	*	*	0.2	0.8	1.8	3.1	6.5	19.3	0.6
1997	1.1	*	*	*	*	*	0.2	0.9	2.1	3.5	6.2	20.3	0.6
1979	2.1	*	*	*	*	*	0.1	0.5	2.0	4.8	8.2	15.3	30.2
Angina pectoris (413)													
1998	0.2	*	*	*	*	*	*	0.1	0.2	0.5	1.7	6.9	0.1
1997	0.3	*	*	*	*	*	*	0.1	0.2	0.6	1.9	8.3	0.1
1979	0.2	*	*	*	*	*	*	0.1	0.1	0.3	0.9	2.1	4.6
Old myocardial infarction and other forms of chronic ischemic heart disease (412,414)													
1998	93.5	*	*	*	0.1	1.1	6.6	25.1	80.7	245.9	689.4	2,335.4	40.9
1997	95.7	*	*	*	0.1	1.2	6.6	26.6	86.0	251.8	708.9	2,464.1	42.5
1979	109.4	*	*	*	0.1	1.0	8.4	39.3	117.0	340.3	1,072.2	3,424.9	59.9
Other diseases of endocardium (424)													
1998	6.9	*	*	*	0.1	0.2	0.7	1.6	3.9	13.3	50.7	199.6	2.7
1997	6.6	*	*	*	0.1	0.3	0.7	1.5	4.0	13.0	50.9	192.4	2.7
1979	2.9	*	*	*	0.1	0.2	0.6	1.5	4.3	11.6	27.5	47.1	1.8
All other forms of heart disease (415-423,425-429)													
1998	78.3	15.0	1.3	0.7	2.3	4.8	12.3	33.4	84.5	200.3	513.9	1,808.7	37.7
1997	78.2	15.6	1.3	0.7	2.3	4.7	12.0	33.2	88.5	201.9	520.2	1,842.6	38.2
1979	63.7	19.0	2.0	0.7	1.9	3.7	11.0	35.7	88.1	204.8	555.9	1,641.4	38.4
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208)													
1998	200.3	2.1	2.4	2.6	4.6	11.3	38.2	132.3	383.8	841.3	1,326.3	1,749.4	123.6
1997	201.6	2.4	2.9	2.7	4.5	11.6	38.9	135.1	395.7	847.3	1,335.2	1,805.0	125.6
1979	179.6	3.4	4.6	4.4	6.1	13.3	48.3	181.4	429.4	800.0	1,207.6	1,522.9	130.8
Malignant neoplasms of lip, oral cavity, and pharynx (140-149)													
1998	2.9	*	*	*	0.1	0.1	0.7	3.0	7.7	11.7	14.8	21.7	2.0
1997	2.9	*	*	*	0.1	0.2	0.7	3.2	7.5	12.4	14.4	20.3	2.0
1979	3.8	*	*	*	0.1	0.2	1.1	5.6	11.8	16.3	18.1	23.7	3.0

See footnotes at end of table.

Table 7. Death rates and age-adjusted death rates for the 15 leading causes of death and selected components in 1998: United States, 1979, 1997, and 1998 - Con.

[Rates on an annual basis per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population; see Technical notes. For explanation of asterisks preceding cause-of-death categories, see Technical notes]

Cause of death (Based on the Ninth Revision, International Classification of Diseases, 1975) and year	Age											Age-adjusted rate ³
	All ages ¹	Under 1 year ²	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	
Malignant neoplasms of digestive organs and peritoneum (150-159)												
1998	47.6	*	*	0.1	0.3	1.7	7.0	29.9	85.7	191.7	327.5	507.7
1997	47.5	*	0.1	*	0.3	1.6	7.1	29.0	87.8	191.3	330.2	521.0
1979	48.6	*	*	0.1	0.3	1.8	8.2	36.3	103.9	221.9	388.7	547.8
Malignant neoplasms of respiratory and intrathoracic organs (160-165)												
1998	59.1	*	*	*	0.1	0.6	6.5	34.9	136.2	305.5	378.4	299.2
1997	59.2	*	*	*	0.1	0.7	6.5	36.2	139.7	304.4	379.1	308.2
1979	45.9	*	*	*	0.1	0.8	9.8	56.0	140.9	231.0	238.1	170.3
Malignant neoplasm of breast (174-175)												
1998	15.6	*	*	*	*	1.3	6.8	18.4	32.8	51.9	80.1	138.8
1997	15.8	*	*	*	*	1.3	7.0	19.4	34.1	52.6	80.8	142.5
1979	15.4	*	*	*	*	1.6	9.1	25.3	41.3	56.6	77.4	114.2
Malignant neoplasms of genital organs (179-187)												
1998	21.6	*	*	*	0.2	1.3	3.6	9.8	28.0	77.1	172.5	287.6
1997	22.0	*	*	*	0.2	1.3	3.5	10.1	28.7	80.4	175.7	304.0
1979	20.2	*	*	*	0.5	1.6	4.7	14.5	35.6	88.3	176.0	252.0
Malignant neoplasms of urinary organs (188-189)												
1998	8.8	*	0.1	0.1	0.1	0.2	1.1	4.8	14.8	34.3	64.0	102.6
1997	8.7	*	*	0.1	*	0.2	1.0	5.0	14.9	34.1	64.6	103.9
1979	7.8	*	0.2	0.2	0.1	0.2	1.1	5.7	15.1	34.6	65.6	97.0
Malignant neoplasms of all other and unspecified sites (170-173,190-199)												
1998	24.2	1.1	1.3	1.4	1.9	3.2	7.6	19.6	46.7	90.9	142.3	201.1
1997	24.5	1.1	1.6	1.4	1.8	3.2	7.7	19.8	48.9	92.3	145.3	208.6
1979	21.6	1.7	2.2	1.7	2.3	3.7	8.6	24.0	49.8	86.4	130.2	175.8
Leukemia (204-208)												
1998	7.5	*	0.8	0.8	1.2	1.3	2.1	3.9	10.3	26.9	52.3	76.5
1997	7.6	0.8	0.9	0.9	1.2	1.3	1.9	4.2	11.1	27.3	51.2	79.7
1979	7.1	1.0	1.7	1.9	1.7	1.7	2.7	5.5	11.3	25.4	50.3	76.1
Other malignant neoplasms of lymphatic and hematopoietic tissues (200-203)												
1998	13.0	*	*	0.1	0.7	1.6	2.9	7.9	21.6	51.3	94.4	114.3
1997	13.3	*	*	0.2	0.7	1.8	3.3	8.3	23.0	52.4	93.9	116.8
1979	9.1	*	0.3	0.4	0.9	1.8	3.0	8.6	19.5	39.5	63.1	66.0
Cerebrovascular diseases (430-438)												
1998	58.6	7.8	0.4	0.2	0.5	1.7	6.0	16.5	42.6	130.0	455.4	1,500.0
1997	59.7	7.0	0.4	0.2	0.5	1.7	6.3	16.9	44.4	134.8	462.0	1,584.6
1979	75.5	4.6	0.3	0.3	0.9	2.6	9.1	26.4	68.1	226.9	793.8	2,264.9
Chronic obstructive pulmonary diseases and allied conditions (490-496)												
1998	41.7	1.0	0.3	0.4	0.6	0.8	2.0	8.2	44.8	169.1	365.8	569.3
1997	40.7	1.3	0.3	0.3	0.5	0.9	2.0	8.4	46.3	165.3	359.6	561.9
1979	22.2	1.9	0.5	0.2	0.3	0.5	1.7	9.3	40.2	117.0	200.6	230.2
Accidents and adverse effects (E800-E949)												
1998	36.2	20.0	12.7	8.3	35.9	31.1	34.0	31.6	32.4	48.3	106.3	280.5
1997	35.7	20.1	13.1	8.7	36.5	31.8	33.0	31.0	32.6	46.4	103.4	276.5
1979	46.9	31.5	26.5	16.1	62.6	45.7	38.4	39.4	43.5	58.8	117.8	276.0
Motor vehicle accidents (E810-E825)												
1998	16.1	4.3	5.0	4.8	26.9	18.4	15.6	14.4	15.1	18.5	28.9	31.5
1997	16.2	4.3	5.0	5.1	27.9	18.9	15.2	14.3	15.3	18.2	29.0	32.7
1979	23.8	6.5	9.8	8.3	45.6	28.8	21.0	18.6	18.2	20.7	28.7	24.4
All other accidents and adverse effects (E800-E807,E826-E949)												
1998	20.1	15.7	7.7	3.5	8.9	12.7	18.3	17.2	17.3	29.8	77.4	249.0
1997	19.5	15.8	8.1	3.6	8.6	12.9	17.9	16.7	17.3	28.2	74.4	243.8
1979	23.1	25.0	16.7	7.7	17.0	16.9	17.4	20.8	25.2	38.1	89.2	251.6

See footnotes at end of table.

Table 7. Death rates and age-adjusted death rates for the 15 leading causes of death and selected components in 1998: United States, 1979, 1997, and 1998 - Con.

[Rates on an annual basis per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population; see Technical notes. For explanation of asterisks preceding cause-of-death categories, see Technical notes]

Cause of death (Based on the Ninth Revision, International Classification of Diseases, 1975) and year	Age											Age-adjusted rate ³		
	All ages ¹	Under 1 year ²	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over		
Pneumonia and influenza (480-487)														
1998	34.0	11.7	1.0	0.3	0.6	1.4	3.1	6.3	17.0	59.8	241.4	1,063.9	13.2	
1997	32.3	11.1	1.2	0.4	0.6	1.3	3.2	6.6	17.2	57.0	233.7	1,024.7	12.9	
1979	20.1	33.0	2.0	0.6	0.8	1.5	3.2	7.1	16.4	47.8	184.2	694.9	11.2	
Diabetes mellitus (250)														
1998	24.0	*	*	0.1	0.4	1.6	4.2	12.7	38.4	89.6	171.8	294.9	13.6	
1997	23.4	*	*	0.1	0.4	1.6	4.2	12.9	38.4	88.2	167.4	294.1	13.5	
1979	14.8	*	0.1	0.1	0.4	1.4	3.6	9.0	25.8	61.3	130.3	211.6	9.8	
Suicide (E950-E959)														
1998	11.3	...	...	0.8	11.1	13.8	15.4	14.8	13.1	14.1	19.7	21.0	10.4
1997	11.4	...	...	0.8	11.4	14.3	15.3	14.7	13.5	14.4	19.3	20.8	10.6
1979	12.1	...	...	0.4	12.4	16.3	15.4	16.5	16.6	17.8	20.8	17.9	11.7
Nephritis, nephrotic syndrome, and nephrosis (580-589)														
1998	9.7	3.7	*	0.1	0.1	0.4	1.0	2.7	8.0	26.0	75.8	217.2	4.4	
1997	9.5	3.6	*	*	0.1	0.5	1.0	2.6	8.4	25.6	73.6	218.0	4.4	
1979	7.0	6.4	0.2	0.2	0.3	0.7	1.5	3.7	8.5	23.7	64.7	155.2	4.3	
Chronic liver disease and cirrhosis (571)														
1998	9.3	*	*	*	0.1	1.3	7.6	16.6	23.3	30.7	31.0	21.9	7.2	
1997	9.4	*	*	*	0.1	1.3	8.0	16.7	24.1	31.4	30.2	22.8	7.4	
1979	13.2	1.0	*	*	0.2	3.4	13.9	31.0	40.9	41.8	28.3	18.1	12.0	
Septicemia (038)														
1998	8.8	5.7	0.6	0.1	0.3	0.7	1.5	3.6	9.2	24.3	62.2	175.3	4.4	
1997	8.4	5.2	0.5	0.1	0.2	0.6	1.4	3.5	8.5	22.6	60.0	177.6	4.2	
1979	3.6	7.6	0.5	0.1	0.2	0.4	0.8	2.2	4.9	12.4	29.7	70.3	2.3	
Alzheimer's disease (331.0)														
1998	8.4	*	*	*	*	*	*	*	0.1	1.1	10.4	70.0	299.5	2.6
1997	8.4	*	*	*	*	*	*	*	0.1	1.2	10.8	73.3	299.2	2.7
1979	0.4	*	*	*	*	*	*	*	0.1	0.8	2.1	3.0	4.3	0.2
Homicide and legal intervention (E960-E978)														
1998	6.8	8.5	2.6	1.2	14.8	11.8	8.0	5.0	3.4	2.5	2.7	2.5	7.3	
1997	7.4	8.3	2.4	1.2	16.8	12.8	8.4	5.6	3.9	2.9	2.9	3.8	8.0	
1979	10.0	5.0	2.5	1.1	14.5	18.2	14.3	10.8	7.0	5.4	4.8	5.0	10.2	
Atherosclerosis (440)														
1998	5.7	*	*	*	*	*	*	0.1	0.5	2.5	9.2	36.9	207.2	1.9
1997	6.0	*	*	*	*	*	*	0.1	0.6	2.4	9.8	40.5	225.5	2.1
1979	12.8	*	*	*	*	*	*	0.1	0.9	4.8	24.4	125.3	649.1	5.7
Hypertension with or without renal disease (401,403)														
1998	5.3	*	*	*	*	*	0.1	0.5	1.7	5.0	13.6	38.3	128.4	2.4
1997	5.1	*	*	*	*	*	0.1	0.5	1.7	4.6	13.1	38.2	122.5	2.3
1979	3.2	0.1	*	*	*	*	0.1	0.6	1.7	4.1	10.4	29.5	88.4	1.9

* Figure does not meet standards of reliability or precision, see Technical notes.

† Category not applicable.

‡ Figures for age not stated included in "All ages" but not distributed among age groups.

1 Death rates for "Under 1 year" (based on population estimates) differ from infant mortality rates (based on live births); see Technical notes.

3 For method of computation, see Technical notes.